

## CLAIMS

1. A method for detecting a psychological disorder in a person by recording an activity  
5 pattern of the person and analysing it, the method comprising:
  - collecting movement and, optionally, other data from a person by a device borne by the person during data collection;
  - storing the collected data in a memory in contact with the device during the collection of data;
  - 10 - transferring the stored data to a computer,
  - calculating at least one set of parameter data distinctive of said movement data;
  - feeding said at least one set of said parameter data to an Artificial Neural Network trained to recognise in said data a feature specific for a psychological disorder or a group of psychological disorders, thereby determining the presence or absence of said psychological  
15 condition.
2. The method of claim 1, wherein the psychological disorder is selected from the group comprising: Attention-deficit-hyperactivity disorder (ADHD), Disruptive behaviour disorder, Disorders including sleep disorders such as Primary insomnia and Sleepwalking  
20 disorder, Posttraumatic stress syndrome, phobias, Bipolar affective disorder, Bipolar mood disorder, Major depression, Unipolar major depressive disorder, Schizoaffective disorder manic type, Schizophrenia, Panic disorder with agoraphobia, Social phobia, Obsessive-compulsive disorder, Amphetamine abuse, Hallucinogen disorder, Cannabis intoxication, Opioid dependence, Tourette's Disorder, Autistic disorder.
- 25 3. The method of claim 2, wherein the psychological disorder is ADHD and other hyperactivity disorder.
4. The method of claim 2, wherein the psychological disorder is a bipolar affective  
30 disorder (maniac-depressive illness).
5. The method of claim 1, comprising the calculation of at least two sets of parameter data.

6. The method of claim 1, comprising the collection of non-movement data simultaneously with the collection of the movement data, and to analyse said other data in a corresponding manner in the artificial neural network.
- 5 7. The method of claim 5, wherein the non-movement data is heart rate data.
8. The method of claim 1, wherein the person is under the influence of a drug capable of affecting a psychological disorder of which the person may suffer.
- 10 9. The method of claim 8, wherein the drug is amphetamine.
10. The method of claim 1, wherein movement data is collected over a period of at least 8 hours.
- 15 11. The method of claim 1, wherein movement data is collected over a period of at least 24 hours.
12. An assembly for detecting a psychological disorder in a person by recording an activity pattern of the person and analysing it, the assembly comprising:
- 20 - a device for collecting movement and, optionally, other data from a person, the device being borne by the person during data collection;
- a memory in contact with the device during the collection of data for storing said data;
- transfer means including an interface for the transfer of the stored data to a computer,
- software means for calculating at least one set of parameter data distinctive of said
- 25 movement data;
- means for feeding said at least one set of said parameter data to an Artificial Neural Network trained to recognise in said data a feature specific for a psychological disorder or a group of psychological disorders.